"During my 2 years as an NRC member the improvement of DX News has gone from good to superior... I can't say enough for the BPC and members of NRC!"

(Mary Garber, Nebr.)

IN THIS ISSUE...

Simple Audio Filters - Russ Edmunds
Latest NRC Log Updater - Russ Edmunds
Baseball Networks - RjE & ERC
Reports from Thailand and Hawaii - Wood & Hauser

NEW MEMBERS!

*Eric DiRicco, 540 Gallion Ave., Pittsburgh, Pa. 15226
*Ira Goldhaber, 1818 Ocean Ave., Brooklyn, N.Y. 11230
*Eric McIntosh, 5 Wilfrid St., Invercargill, New Zealand (rejoins!)
*Bob Hutt, 9242 Harwick Rd., Indianapolis, Ind. 64240
*Bob Mowrer, 63 Anthony Wayne Dr., Wayne, Pa. 19087
*Donald Share, 340 Shady Woods Ave., Memphis, Tenn. 38117
*David Dunn, 81 Florence Rd., Apt 2A., Branford, Conn. 06405
*W.F. Brazelton, 952 Carolina Dr., Apt 24, Livermore, Ca. 94550

Welcome to the NRC, gentlemen, your New Member Kits are already in the mail and you will be receiving them shortly. We hope to be reading your contributions often here in DX News.

NEW NRC LOG NOW BEING PRINTED!

The first pages of the new 170 page NRC Domestic Log are now on the press as previously announced the new edition will feature a plastic spiral binding and full station information updated through May, 1970. Full information on prices and availability next issue.

ANOTHER BIG ISSUE...

Once again we're putting out a 40 pager - over the last 4 issues we've averaged 39 pages per issue! ERC's copy arrived almost 24 hours past our deadline this week, rather than put out this issue without Musings we're forced to publish several days late... Editors: PLEASE MAIL EARILY!
FOR SALE...

Too many receivers to list here such as Hammarlund HQ-129X, HQ-150, HQ-160, National NC-400, Hammarlund Super Pro, etc. Send SASE for detailed list to Dick Nelson, 20962 Haas Street, Chatsworth, Ca. 91311.

(Dick Nelson)

Starting a station of your own? Our good friends at Gilfer Associates have a special deal on a set of books of special interest to AM broadcasters, all published by TAB, including:

Radio Promotion Handbook - Wm. Peck
Modern Radio Broadcasting - R. H. Coddington
Radio Program Idea Book - H. Fisher
Managing Today's Station - J. Hoffner
CATV System Engineering - Wm. Rheinfelder
Broadcast Station Operating Guide - S. Robinson
FM Station Operations Handbook - V. Ray
Interpreting FCC Broadcast Rules and Regulations - Editors of BM/E mag
Technical Papers NAB Engineering Conference 1968

The book value for this set is $75 retail, but Gilfer will sell the set for only $20.00. Write Box 239, Park Ridge, N.J. 07656.

ANARC CONVENTION COMING UP!


Rates for singles at the Lake Tower Inn are $17 and twin doubles are $25. The registration fee of $10 includes the banquet Saturday night, Sunday breakfast, and eligibility for one of the prizes. All registration fees should be sent to Convention Chairman Jerry Heien. Registration cards are available from Jerry.

The Lake Tower Inn is located on Chicago's Lakefront and is convenient to the downtown Chicago area which is within walking distance. A free bus to the Loop is available to all registered guests. There are parking facilities available at the Inn and nearby. We also have the use of the swimming pool.

On the program is a scheduled tour of the WGN studios on Saturday AM. The guest speaker will be announced later.

- Info from Jerry Heien

SPECIAL THANKS

are due to Publishing Committee members Randy Kane, George Kelley, Ray Moore, Mark Katz, and Tom Holmes for recent extra efforts (above and beyond bringing you DX NEWS) on the reprint, Log, and New Member kit projects. Their efforts keep the NRC operating!

GPN
MUSINGS of the Members

BILL HOBEY - Box 27 - Clarence, Ontario
All settled in and getting along well. Lots of work to do. Haven't got a temporary antenna (yet). Just managed to squeeze in an AM broadcast on a software key from a random location. Sig is very clear - 1600 kHz. My QTH is near that frequency, but I also drift a bit. W4KKV was heard on 1600 kHz.

TIM DAVIS - CQ - Winchester Road - Apt. 10 - Amherst, Ohio - 44015
Came home and discovered that my car had been stolen. Not sure if this is related. Was going to AM again.

RICK EKH - Box 1235 - Zephyr, Indiana - 46450
Long time no contact. I dropped in on the club and was surprised to find you looking for work. I've been busy looking for work too. 12:30-2:00, 2:30-4:00, 7:30-9:00, 9:30-11:30.

JAY WEBB - 1733 Candlestick - Newport Beach, California
Listening fell off as I didn't have everyone else's calls in DX MBB to call on. So there's a report, I guess. I'm still listening to the summer bands, all over the place. I'll try to follow them up.

BOB KAHNBERG - Box 215 - Indl City, California - 90011
4:15. I haven't heard in a month so I have a lot to report. This report is in DX MBB, except for those entries before 4/24, which are in DX. Generally, I keep these for a month or two. All local, etc., are in DX - only the long distance on this list are in DX. Very little activity locally. W2KKV was heard on 1400 kHz.

STUART McKEE - 2109 South Simpson Street - Philadelphia, Pennsylvania - 19142
I was so busy during April I just couldn't remember what happened. But I do have a report for DX MBB. I've been busy this season and have to see the latest reports from 2-3 years ago. Thank you for the help, CQ.

[Signatures and addresses]
Greetings from the Sunflower State! While I take a break in studying for a chem exam tomorrow, I figure it would be a good time to run off a quick item. It has been a while since I got a chance to hear from you. Here's the latest news.

JULIA ZIMMERMAN - Metcalf Hall - McPherson College - McPherson, Kansas - 57640

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I'm in New Zealand on the whole but cannot afford high-spirited year, so we've begun to use some of our pre-war sets and transmitters. I've done 75% of my DX on a natural (Japanese) F-437 ten transmitters w/75' long wire 25' high, HE/AB, at home. I also use a club shack on a hill 800' high in a high M of the city, where an old Sover 900 X eight-valve Allman was stretched out over the fields. I've worked all New Zealand stations, 51 Australians, seven continental USA (four states), three Hawaiians. Our other countries include Philippines, China, Netherlands Antilles, Fiji, Greece, Cuba, USSR, Thailand, Papua-New Guinea, Mexico, North Vietnam, Japan, South Korea, Torn, New Mexico, Canada & New Zealand. My best stations are VOI-Hallis-1209 and Langel-1306 (VIR). I've worked 21 countries. I hope to be able to send in a report to the DX Museum this summer. I find the DXing in New Zealand has been nonexistent recently due to pressures of work. So, you can be a teacher - and to the fact that it is Summer here when you are en- joying the height of your season. In the past six months I've reported & verified 7500 DX contacts.

Fred Sewart, K2KBA, for three years now & a member of N6UKA. I am, for the moment, a member of N6UKA. I am interested in both DX and DXing.

We have some new bands and transmitters. I've been DXing for ten years now & am a member of N6UKA. I am interested in both DX and DXing.

[The text contains various DX contacts and statistics, including stations and equipment details.]

LEN KILBY: 175 Glen Oak Street - Minneapolis, Iowa - 52001

Great, I sure missed the regular reports of DX N6UK during the week of the many difficulties, but real happy to see that all has been smoothed out & we still once again will receive the N6UK publication on its regular schedule. Congratulations, Ross Hancock, of Madison, Wis., on receiving the first CFBP DX verifies.

Great DXing! I do enjoy reading the regular reports of my old-time DX friends, Joe Brauner and Emil Cooper; despite both of their terrific DX logs, they continue to log some mighty find catches. Glad to see my good friend Bill Stone of Claremont, Ont. renew his membership in the N6UK. The DX Special from Station W3KQ-1350 Breslau, Mn., is anxious to wait; it's one of only a few from Minnesota lacking on my DX Log. Here is a brief summary of my latest DXing, plus the DX Specials, to give you a hint of the DX life.

On 3/11 Station K1MX-8001 Lake Providence, La., was logged during RS from 7:15-15:30, for the first time. The following day on 3/12, it was Station K1MX-8002 Croydon, Tex., that I logged during 7:15-15:30 on its RS. The RS s/o of Station W3KQ-1500, Detroit, was logged on 3/16 at 7:30 pm, followed by another new catch in the State of Michigan, namely W3UXY-1770 Kalamazoo, Mich., W11 on its RS on 7:20-4:35, w/some QRM from WSW1B. Verifications received of late included: W4OG UMF K1RX DX K1WX K1PL.

Frank KLZENGER: 45 Lakerto Drive - Matawan, New Jersey - OTH;

I'm off to the DX Museum this weekend 3/26-4/19 for a DXing trip. I've been at the museum for three months and was thinking of going. I've been at the museum for three months and was thinking of going. I've been working on my DXing for three months and was thinking of going. I've been working on my DXing for three months and was thinking of going. I've been working on my DXing for three months and was thinking of going. I've been working on my DXing for three months and was thinking of going.
**Ministry ‘jamming’**

By I. MARSLAND GANDER
TV and Radio Correspondent

**Signals** from the pirate radio ship North Sea International, anchored off Clacton, are being jammed by the Post Office. This was announced yesterday by Mr. Stonehouse, Minister of Posts, who said it was being done at the request of Norway and Italy.

It marks a radical and aggressive change in the attitude of the Government towards pirate broadcasting. Jamming is a costly, negative and wasteful business and it has been done for years.

The chief offenders of course are the stations in the Caribbean, particularly in the British Virgin Islands. But the station in question is in international waters, and it is expected that it will continue to broadcast despite the jamming.

**RADIO JAM**

By I. MARSLAND GANDER

During peak times and in the evenings we will be successful," he said. "The P.O. might be able to pick up a few of us, but it will take us a hell of a long time to track you down. We don't mind going to court.

Mr. Duke's army is made up mainly of students and teenagers who operate transmitters with a very limited range. Most of them broadcast their own programs on Sunday afternoons from moving vans to avoid detection.

Mr. Edwin Bollier, one of the three Continental stations in the Caribbean, said that the illegal station would try to continue broadcasting by shifting from 100 metres to 117 metres, deeper in the medium wave band and far away from shipping broadcasts.

Mr. Bollier said that if the disturbance continues, he would continue to transmit into international waters.

The Ministry began broadcasting a low-powered ship on 190 metres yesterday afternoon, with the aim of upsetting the pirate station. But the station's transmissions could still be heard well even if the tone control was operated.

Mr. Bollier strongly denied that the transmissions on 190 metres were interfering with shipping broadcasts and suggested that the British Government was making this up. He said that the station had deliberately switched from 186 metres to avoid cutting into maritime transmissions.

The station, he said, would go off the air when its broadcasts closed at 2 a.m. today and remain off for several days while it switched frequencies.

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**Antigua Gets 1st Private Station**

ST. JOHN'S, Antigua—Yvor C. Bird, founder of Greenville Radio Ltd. here and well known in Caribbean broadcasting circles, has announced that a new private station—ZDK—will begin broadcasting at 6 a.m. midnight on April 16. The station will broadcast into a two-mile area around St. John's.

Bird, the 40-year-old owner of the station, is a communications graduate of Western Michigan University. He has a radio experience with the Antigua Broadcasting System and has been in charge of the station for three years.

Bird said that the station would operate 24 hours a day and would broadcast music, news, and local programming. The station would also broadcast commercials and advertisements.

The station will operate on a power of 100 watts and will use a frequency of 1535 kHz. The station will be located in the center of St. John's and will be under the supervision of Bird and his staff.

The station will be open to all interested parties and will be a source of news and entertainment for the people of Antigua.

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**CLIPPING CORNER**

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Conditional in Hawaii, March 23 - April 28:

General: Mixed conditions, but generally quite wintry in orientation. The startlingly good reception of Alaska, noted from the beginning of March on, continued until interrupted by a reversal, on April 22, to the auroral cx which were last noted on just after March 9. By April 25, aurora apparently had finished.

3/23: Alaska remarkable: KIY very excellent, KFCD semi-local, KYAR very good, KWSI excellent, KTEM very good, fighting CKW. Northerly orientation: CHUR over XHRF. CPFB almost level strength with adjacent, closer clear channels. Even seldom-heard KXAM good. CPFX fair. An excellent night, then, to all N.A., but TAH also very good.

3/24: Continued excellent to N.A. WABC almost level KOB. WRN excellent in KGO mp.

3/25: still very good, KEIS thru local KTMG, etc.

3/27: A definite decline in cx. to all areas; KXAM, WEZ weak; GOR poor, no NZ.

3/28: Much improved again, and very northerly cx.: Ore. and Wash. over Cal. on many fo's. KAST over KJZ-1360, XZWH over XDN-1460, etc. And a new E.C. logging, CHQF dominating 1280. WHAM, WBS very good, KTW quite good thru CPFW (classic sign of good cx.), KXAM, WLS excellent. Yesterday, KXAM in the clear. Today, rivaled by KJZ. KFCD Alaska quite good. NZ-660 lack.

3/29: Excellent. KFCD, KICX exc., KJNP (not often hr) quite good, KFGD fair. WCAQ exc. excellent, WXGVA very good. Clear opening to the Sidewater area: WXGVA-Va. 1250 new. WAP-No. 110 almost level KRM. new. Several Cuba, several NZ, a few Austies. XKDG-680 new.

3/31: For all areas, KTW actually level CPFW, CPFB good, WYXG exc., XWRS exc., WWG very good (seldom sc, here), WBS very good. Good opening to FLA./Cuba. WHZB-1550 FLA. good, first time this year, WB1 good. Tonga, Australia.


4/2: Australia on low freq. etc: 3AR-620.


4/8: E.C. very good; WZG, WHAM, NZG-660 very good.

4/9: Excellent to many areas, including high latitudes. CXBG-540 B.C. 40w. good, 100% readable and recorded. NZ-800 almost level FJH. Alaska: KFCD, KEMT V.G., KFAR g.

4/10-13: Northerly areas again. Several Alaskans. WNW-1010 FLA. first time this year. KEMA-1470 Wash. level KXAM. KAST over KEEN, etc. KICX excellent. WXGVA excellent. WSPD-1750 O. new. WKNO-920 quite good.

4/14: Still excellent. KSNR-920 Alaska very good, KFCD almost semi-local, KFDB level CUVI. WBSG over KOB, best yet. KYAR good. KWSI-1270 alms., not often heard lately. JLG-770 good. WBSG-880 easily listenable even w/EAD-870.

4/16: Declining cx. Average.

4/19: Northerly am: southerly propagation favored: KIY-500 Alas.; 4Gp, ZRE; N.A. only fair, below average.


4/22: Extremely violent auroral cx. S. Pacific way, way above average, Tonga-1020 up to 5-9, archaic listening quality; KIAI hardly a trace. (N.B. 220 not just revealed by absence of KXAM; but far above average in strength.) FLA., NZ very good from mid-evening. Best of all, first opening this year to 1000-1100 Ks. la Plata: 1S3-950, CXG-610 - others until-1005,1070, 123X. CXG-530 now.

4/23-25: Aurora still, Cookies-is-600 reported, more KSA. 4/24: blackening cx. FLA.

Times in this edition are Eastern Standard. To review reporting format for submission to Editor Reports, please use one side of the sheet, 8-1/2 x 11 paper is preferred. Since we are using our machine and then "scan" them vertically, single-spacing with a small space between items (for cutting) has been found by your Editor to work best. Your cooperation with this request is appreciated. We are continuing using NFB until and if a different policy is decided upon, and I am assuming that all submissions this issue are so stated by the reporter -- Receptions --

** 670 Nicaragua. Radio Corporacion, Managua, brrd w/excellent signal 4/30 at 0055. 8/aff at 0103; said would return at 0500 local time, which is CST. (Brubaker, Fla.)

540 unID. LA here, SS, seemed to loop Cuba, Venezuela area. Bad mx and talk format; too weak; No ID 0005 4/22. (2munda, N.J.)

570 Dominican Rep. To all concerned, the SS brrd here 12/29 and 2/23, on at 0400, is R. Rumbos YVFX Caracas, operating with 200 kw. (Oblo, D.R.)

580 Puerto Rico, W4K AQ brrd here with small pocket radio 5/3 at 0204. They're always strong here, especially during the early AM hours. (Brubaker, Fla.)

590 Nicaragua. Radio 590 brrd 5/3 from 0129 to 0142 with good signals. What is their power? (Brubaker, Fla.)

600 Cook Islands, NZLC, Rarotonga. Brrd 4/23 with Maci welcome song 0255; fair, then CJQF took over. First evening reception here. (Wood, Hawaii)

607 Australia. 3AR Melbourne, Vic. 4/7 0620 pmn of madrigals. Good, one of the many Aussie signs on this good Aussie night. (Wood, Hawaii)

720 Ecuador. unID, NC-, likely one of 2 possibilities mentioned in BFRS. Low, tinny audio, but caught several mentions of "Bolivar", part of the slogan of 2 stns. (Schatz, Fla.) (Latest BFRS, 1 Sep 69 issue, lists no less than 4 NC'S here, 2 of which are "R. Proclama de Bolivar" in Asuncion and & "Bolivar" in Guanarada. Note this, both show call as HC5PM and power listed for both as 450 w. so couldn't there be an overlap of some sort here? In other words, maybe just 1 stn here? -Ed.)

750 Hawaii. KORL Honolulu now has telephone talk show 0500-1000. M6R instruments the rest of the time, as before. (Wood, Hawaii) (Especially no change on WAPI concerned--ed)

760 Ecuador. HC5W, Radio Vision de Manu in here with fair s-s signal 3/28 at 2021-2036. WSN wasn't hr for some reason. Nrd with native sx, SS talk and time checks, and SS ads. At 2030, a nice SS ID as "la ciudad de Manu, Republica del Ecuador, transmite Radio Vision, 650 kilociclos, codes normal .... mega muzical de la ciudad. Adverts lost at 2036 when WSN began fading in. (Steve Kemp, Texas.) (New BFRS sees 2000 watts -Ed.)

Radio Caracol, Guayaquil runs NSS with lively promos and interrupted music. A good signal in Fla. after TBS 8/off. (Schatz, Fla.)

Mexico. KEXM good every night here, brrd 2000-2015 3/28 with many ads, a little rock sx. All in SS except for an ad for tequila in Eng. (Kemp, TX)

New Caledonia. ORTM Noumea. The new 20kw xmt, replacing 1820 is here! Not on 730, as earlier planned, nor on 625 as is listed in WHWV70. (Which was revised to 0336 4/6 with typical ORTM pps, i.e., historical memoirs and maxims by French philosophers. Weak to fair with W4KA off and other bands noted. But will not be a second Gilbert-and-Elllice, as it is not comparable in strength nor in choice of freq. Suggest looking for this one when at least 6 Austies are coming in fairly well. (Wood,Hi) (Well...let's me out, hi. New Caledonia is roughly 1000 miles NW of Australia's Barrier Reef; is noted for nickel mining. Wow, hi -Ed.)

775 Micronesia. NBR, Union Radio, Managua Fair 5/1 2331-2350 µw'd rock sx and taped IDs between selections. GNP from 660 channel. (Kemp, Texas)
Mexico. XFM, Radio Eveo, Oco, running MM 3/30, frequent IDs as "L.o.~rubiner, H.~rubiner, H.J.~rubiner, L.~rubiner, etc. Very good; must've gone NSW. (Wood, Hawaii)

Cuba. Radio Rebelde/ L.V. de Cuba definitely here from 730. No set noted days, just at night. (Schatz, Fla.) Radio Rebelde, Colon good 4/22 0048-0059 s/off. Light mx, "Noticiero Radio Rebelde", ID, s/off ancts, anthem. Came on again 0100 with L.V. de Cuba, easily separable from WGN. (Kamp, Tx.)

Guatemala? Perhaps TGN here 4/22 0100-0103 loss; ID at 0103 sung to time of "Get me to the church on time" and thought I hrd "Radio Cultural" mentioned by anct not sure. Either lost or s/off 0100. (Kamp, Tx) As is, Surinam. SUS Paramaribo is here MM 3/30 with fair but weak s-3 signal.

Dominican Rep. Card with s/off anct on 705 at 0141, then NA, carrier off at 0145. Fair signal, have never noted them on this late before. (Bill Rehlsaker, Fla.)

Holland. Hilversum was noted on late with coverage of Apollo 13 with a fair signal. (Naggerfield, Fl.)

Venezuela. TVX has become a loud regular in Miami evenings. (Schatz, Fla) MM 2000 ID. (km) QM signal evening with loop pointing south. Haven't ID'd yet, as have been too busy on other f's (freqs.) (Schatz, Fla)

Panama. La Voz del Istmo, EXCO hrd s/off at 2314 with NA on 3/26, hrd for the first time. (Cesar Obijo, Dom. Rep.)

El Salvador. TSKL noted here ex-760, IDs by callsign, // 770. (Schatz, Fla.)

Australia. 3LG, Melbourne, Vic, undoubtedly the one with 3 pips exactly an hour later. MM 0550-0505 s/off. MM 0550, male anct and a rock tune. Rock mx ctd until 1/6 out 0625. Tape sent. Surprised to note them with rock music. New mx. (Carver, Neb.)

New Zealand. 7YA Dunedin probably the one with operas at various times from 0435-0550 MM 4/20. The opera was similar to the one 1YC had earlier but not as loud. There was quite a bit of "Cadena Camagueana", ZBVI and a number of SS. Just the opera was hrd; no definite ID, unfortunately. (Carver, Neb.) (780 certainly is a good MM freq, isn't it? - Ed.)

Br. V.I. Tentatively ZBVI hrd fair 0505-0513 here MM 3/30. As for a clothing store in Thomas at 0505 and 0506, man gave birthday greetings to someone in St. Thomas. He kept on talking but I couldn't read him. Last at 0513. Was all in EX. (Steve Kamp, Texas) (Sounds like them, Steve) Venezuela. Radio Barquisimeto, YVM with 50kW will be AN after 4/1 as announced. (Obijo, D.R.)


Venezuela. To Bob Foxworth: Your note (?-Ed.) on this item in 3/7 MR is this: Radio Ochocentos Derx means Radio 810 but they were always on 820, not on 810 as they announced. The slogan of the station comes from the frequency which they were not using. (Obijo) (Yes, I figured that was the case. Cesar. However, it still doesn't seem to be completely logical, by Ed.)

Guatemala. Radio Internacional, TGTG is here hting TGB 8-20; plays much Mexican style mx. (Schatz, Fl.)

Dominican Rep. ELBS a regular here on Fri., Sat. and Sunday mornings, when they are on late. Very strong signal, lively music and IDs similar to WKAQ, etc. (Schatz, Fl.) Radio Rebelde, Santo Domingo is operating with 10 kw since 1/2. To Filcho-Conrad-Waldron, your set hrd here on 2/2 is this one. They are AN on week-ends - that is, they s/off at 0500 Fridays until Monday evening at 2400 s/off and on the other days of the week they operate 0900-2400.

Colombia. RJHS, Omnibus del Caribe, Santo Maria, fair here MM 3/30 with a s signal. 0251-0258 LA mx, SS TCs and a few ids. was under WHAS SC until 0302 when WHAS cut it. (Kamp, Tx.)

Cuba. A new s and apparently a new set also. Hrd 0100 4/20. Set seems to be Cadena Camagueana, the 860 outlay is CMT in Ciego de Avila with a slogan "Cadena Camagueana" or "Reventes" and if the latter, would mean the "worker's network" or "proletarian network". Not included: CMX-1300 Radio Maitana, 0102 Radio Nuevitas, Radio la Revolucionario, CMX 880 Radio Revolucionario de 7 de ano (?) and CMTY. All but 830 are in Camagcay province. (Russ Edmunds, N.J.) (very interesting, Russ - Ed."

Dominican Rep. Central del Caribe, 10 kw, 0500-0600 is owned by Difusora Hemisferico, S.A. Xutr and eight are Wilkinson. The station is located in Santo Sanz. (Obijo, D.R.) Radio Claria, Santo Domingo, first noted with Cesar on 5/1 when he was over at my house. Hrd then with mx and spots from 2230 to 2240. Have noted them since with especially strong signals around 0100. They s/off at 0100 EST so some of your northerners should be able to hear them. (Brubaker, Fla.) (ERC got 'em - Ed.) Radio Claria vies with HXM evenings, and dominant when AN. Much stronger mx. (Schatz, Fla.)

Colombia. Radio Internacional, CMBL is here from 860 kHz. (Schatz) Guatemala. TOT, Radio Nuevo Mundo dominating channel 3/28 0005-0027. Vocal mx, many IDs in SS, few ads. (Kamp, Tx.)

New Zealand, IYC Auckland. I nearly fell off my chair when I heard "the time is nine-ten" then a mention of the "T C programmes" at 0114 on MM 4/20. This set was between opera sets. The signal peaked s-2 at 0240 with opera mxx. There was no QRM, due to a clear channel until an SS s/off at 0857. Reported. (Carver, Neb.)

Philippines. (990 item from Wood, Hawaii.) Adelaida, S.A. 4/6 reached best strength of all Aussies during SBC-type talk 0523. Not on 790 as erroneously printed in WFRM 1/70. Radio Tiempo, Managua hrd fair MM 3/30 0615-0625. Have SS TCs by man every minute, along with vocal mx. SS ID between selections. One went like this: "exacta, exacta, minuto a minuto, Radio Tiempo en Managua, todo dia, todo ano". Low 0655. WQCM and FBID list as "Alma Latina" as perhaps new ownership, format change or something. (Kemp, Texas) El Salvador. "Radiopolis" still here, IDing itself 2 relays. Good signal in MM. (Schatz, Fla.)

Colombia. HJAE, Emisoras Fuentes hrd here with RF 0106 and on, 4/20. Apparently runs on 922 but not here, (Kamp, T.X.)

Alaska. USN WSO/2, 3/2 0305 s/off, no Alaska's Flag or SSB this time an excellent night for Alaskans. (Wood, Hawaii who spells it "Alatoks")

Uruguay. CX-05, Radio Montecarlo, Montevideo. 4/22 0420 with local spots, fair but unrepeatable with KEO partly looped. (Wood, Hawaii) Argentina, 1R-1, Radio Belgarco, Buenos Aires. 4/22 0420 many IDs, local news, easily reported. First Argentine of the season, other possible ID's (Deep So Americans -Ed) on 1030-1070-1230. (Wood, Hawaii)

Mexico. XFM, Frecuencia de Oro, Tijuana, B.C. No much louder than before, and about 10,000 watts which must be in use full time. Annotating as transmitting "These are our modern studios in Hollywood, California, bringing sites from all parts of the States", and everything else in Spanish. No one in Tijuana. Can any Los Angeles members provide their Hollywood address? (Wood)

Cuba. CKW believed to be in Sancti-Spiritus, carries "Radio Progreso" for apps 19 hrs and "Beloj Nacional" in the early AM. Good day and night in Miami. (Schatz, Fla.)

Tunisia. We noted with EK sked weekdays 1030-1130; talk show, news, and rock mx request shows. Followed by pm in French. Easily hrd days from Malta. My '69 WFRM shows sked in Italian and Arabic. (Boveri, Mediterraneo) unID. Sporting event, presumed to be soccer, hrd 0255-0317 4/28, teama perhaps Chineada-s (see print odd names-etc.Ed.) and Monterife but not sure.

(Items continued next page)
Thought had a TBNL ID as of 2310 4/2 but JIC advises that YRLU has not left 91k despite Page T's and my noting this, as strength of the 995 item was what we expected from YRLU. So, this is either a tentative RSC of an unID LA, as it now appears. (Edmonds, N.J.)

1981 - Cuba. Radio 2 de América, San José fair 245-229-224 with light mx, taped ID between selections. (Kamp, Tex)

1985 - Venezuela. To Ernie Cooper: There is no Radio Servicio right now, it is "Seleccion Morentos Orishas" (sextos 900) (Objio, D.R.)

1990 - Hawaii. KTOH, Honolulu. Delete The World Tomorrow on this station from recent HIC list. Public hearings on the renewal of this station's license, or otherwise, will be held June 29. (Wood, Hawaii)

1000 New Zealand. 1Z9, Taungrang. 4/23 0300 N2 talk, fair. (Wood)

1010 Cuba. "CMOS, Estudio Musical Nacional", Havana, IDed at 2311 on 3/27 and had a classical mx pmg. (Objio)

1019 Tonga. ZCO, Maku'alea, 4/22 0330 Western mx, spots for airlines in Eng and Tongan. Armchair listening quality, first time this year, hard to trace. (Wood, Hawaii)

1025 unID. What I believe was Radio Fides in C.Rica, had 3/27 2140-2001 with instr. mx, mostly organ. SE talk by man between selections. ID at 2000. Sounded like "Radio Fides" but garbled slightly. (Kamp, Tex)

1031 unID. Station here playing U.S. pop mx of 1960 vintage non-stop made me think I had Limon 0000, 0200 or 0430 3/3. Other 7As were hrd, e.g. 0205 and signal had deep fades. But to my surprise, at 0100 a man came on and said off the air this being local Call in Spanish a "Girasol CMV". Have seen nothing reported here. Haiti is off well before this; don't believe the Panamanian is on this late. (Hoogsteder, Mich)

1270 New Zealand. 1Z9, Auckland. 4/6 0600 stock market report, CPAX partly looped. (Wood, Hawaii)

** 1028 Cuba. Camagüey, Isla de la Juventud (Isle of youth, former Pinar) station "Radio Caribe" is now up here following a brief stay on 1011 kHz. Announcers are kids. (Schatz, Fla.) (Cuban youth go to this island to farm and learn party doctrine-E!) I'm not sure. This station IDed 0005 4/20, strength seemed to put it as 500 watts or 1 kw. (Edmonds, N.J.)

1090 Mexico. XMM Monterrey hrd well 3/25 2350-0015. Had light mx pmg called "La Bora Borelia" with taped ID in SE. One was: "Radio M-N, con la musica alemana y coros". (Kamp, Tex)

1140 Honduras. La Voz del Atlantico hrd well 2358 4/2. As still a big dubious about that listed power of 500 watts, tho. (RJH, NJ) [new FB5: 6000]

1151 England. BBC Stagshill hrd w/tremendous signal, 3/27 at 0100. Overriding dominance on 1150 kHz. Only other BBC outlets were very weak signals on 1080 and 1295. (Kilroy, D.C.)

1151 El Salvador. YSCP Ona de Oriente hrd with nonstop mx 0000-0030 4/18 with signals a-8 to 9. (Edmonds, N.J) Good signal in Miami, IDing mostly by call. (Schatz, Fla)

1159 Cuba. Sta here, CMA-, in Pinar del Río, weak days but good, nightly, and not IDed yet. (Schatz)

1160 Colombia. Radio Caracol de Ciénaga Grande is the dominant station in Miami evenings. NCM affiliate; off 2300. (Schatz) IDed at 2300 4/6 IDings. (Objio, D.R.)

1160 Colombia. RBC Bogota hrd 4/18 0000 while on fone to Page, hrd what sounded like an ID so played tape to him and he informed me I'd just taped "Radio Caracol", freq, location and power all correct, no 9 signs. (Edmonds, NJ)

1170 Venezuela. TVQV hrd IDing here at 2310 3/12 ex-1160 (RJH)

** 1170 Honduras. La Voz de Centroamérica, San Pedro Sula, first noted on this freq 2000-2340 4/10. Good signal, many spots, ID. Previously verified on 1156. (Brubaker, Fla)

** 1172 Honduras. HHHV La Voz de Centroamérica with good clear IDs after every record and with excellent signals 0021 4/22, HR 32. (Edmonds, NJ)

HHHV is here and loud evenings. (Schatz, Fla.) Note RJE got them on a split freq 8 days before Brubaker got them on 1170, possibly they've settled down on 1170 by now. Can anyone else supply later logos? Ed.)


1180 Brazil. Radio Globo, RJ-3, Rio de Janeiro hrd for the first time with sof/s at 2306 on 3/26 with NA. (Objio, D.R.)

1187 Guatemala. TV2G, Radio Sonora "La Sonora" often overcome 1129 eve. (Schatz, Fla)

1192 Cuba. CMPL, Ciego de Ávila, "Cadenas Camagüeyana" is AN. (Schatz, Fla)

1193 Costa Rica. "Radio Casino" Puerta Limon in Eng with British Colonial format past 0000 EST; don't confuse with Freetown. (Schatz, Fla.)

unID SS. LA with strong audio but weak audio and a bad hit with TII, hrd 2300 4/17. (Edmonds, N.J.)

** 1214 Malta. Maltese, Channels Malta has been monitored extensively: Appears to be totally devoid of talk - no IDs or spots heard - just continuous mx (rock instrumentals and vocals by artists other than the original ones). Audio quality is poor. Signal weak and bothered by hot (which is present in daytime and stronger nights) on the heavily-populated east end of the island; signal much stronger on the west end. (Brow, Mediterranean) Hmm... could the hot possibly be from Tunisia? Are they on the air this year and if so, could they reach that far? Or is Malta itself off freq? - ed."

1220 Mexico. XEM fair 3/26 0214-0227 with LA mx, SS talk. (Kamp, Tex)

1229.5 Colombia. HLF9, Radio Helena. Noted 3/23 carrying Caracol's AM service at least partly heard on 3236 at 0415, (Wood, Hawaii)

** 1229.5 Anid. CEB9. Especially noted to spots on 4/22 that Khaborov, here, has (at least in the 0400-0600 segment) been switched from Radio Moscow Chinese Svce to Japanese. Is // 1475. Politically significant, perhaps a connection with Expo-70? Subsequent monitoring indicates this change to 5000w, schedule in schedule. No more Chinese. (Wood, Hawaii)

1250 Libya. News station observed first time with program from 1900 to 4/10. Also noted on 674 and 1128 but this freq correct. (Bengt Ericson, Sweden) This station (Alex lists it as 1251 however, 1250 is the standard assignment-) noted, believe freq correct. This is heard strongere than 1128, 1052 and at 674. Seems to be // Tripolli-1052 and to 1124 much of the time. (Kilroy, D.C.)

1255 Costa Rica. TVM must be the one here and while it's been listed as E. Monumental and Radio Columbia Canal 4, I think it's the former. (Objio, D.R.)

1272 Costa Rica. ID's been English and on 1272 was a very weak signal all week 4/15 after Page Taylor asked me to check her spot for SABC. (Edmonds, N.J) (Glenn Jacobs advises he heard trace of SABC here, in March - ed.)

1280 Cuba. "Radio Nacional", (CMA) IDed at 0000 3/30, drifting but don't know from whom, clear freqs are 1200 and 1300 for Radio Nacional. (Objio) unID Radio Nacional here (Ron lists as 1306-ed.) is likely CMMJ in Bayamo. Not hrd in daytime. (Schatz, Fla)

1320 Puerto Rico. WUNO, Radio Uno hrd with male vocals, infrequent IDs, 2345 4/12. Well under 2 or 3 domastics, static, but an apparent commercial management. (Objio, D.R.)

** 1322 Colombia. Radio Guanamal, HJMD, Cucuta, hrd here IDing at 1956 on 3/7 with Colombian pop mx and ads, off freq, deep fades and intermittent strong signal. (Objio, D.Rep.)

1394 Albania. Tirana hrd in Eng with news 1530-1545 4/27 (per HHRW asked) and much QRM from other spots on evening R. Female newscaster. (Novel, Malta)

1425 Malta. British Forces Best Sixes a/o for evening pms at 1100, preceded by several minutes of tone test. (Item continued next page)
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INDEX MONTOR REPORTS - VERIFICATION SECTION

575 West Germany. SDR Stuttgart-Mühlacker sent letter in broken Frg for report of 1/8. While being rather vague, it does state that they were rather surprised that I could hear them in the States. Referring to my tape, they also have heard one part of our transmission which has gone over. Of course we have never heard some failing." Also sent several booklets and returned my tape recorded with German music. Signer was Berner, address as in hear.

655 El Salvador. YTB, card, airmail in 18 days. Had sent 15 stamps. (Kemp, TX)

660 Mexico. XELD, Radio Leo, Lda, etc. Specific v/1 from Alejandro Udras, Dirección de Producción at network XE. Radio Comercial, Guadalajara, Jal. Sr. Udras says that my report on XELD is not only the most distant, but, incredibly, the very first ever received from outside Mexico. Hard to believe. (Wood, Hawaii) (First report he is aware of, maybe?)

800 N.W. FNB, card in 11 days; 1 IRC sent to them. (Kemp, TX)

905 Spain. XBA, big card and picture of me, and no return address, in 38 days. (Kemp, TX)

834 Br. Hound. B. Bellis, usual v/q in appx 45 days, specifying date only. Came seaman, but had sent only seaman return postage. (Kemp, TX)

910 Gilbert & Ellice Is. VS21 sent specific letter for my second report of 1/8. Letter states in part, "...the time there is no doubt at all. This was definitely our transmissions on 964 kHz for Let March 1970. The native song you recorded before was a local song of farewell which we play every evening" and they also mentioned that the xmr had been off the air since 3/5 due to a burnt out transformer. Mr. Robins said they expected a replacement shortly, as his letter was dated 3/8 and he had only heard his radio for one or two days. On March 16th I heard that it didn't go off until 0437. New transmissions are being built and may be broadcasting shortly and they will then be installing a new remote control unit. (Merriman, Va)

919 Colombia. BHF, Em. Fuentes, Cartagena. Long, 2-page but vague v/1 from Nelson Puentes Martinez, Gerente. Enclosed a large pennant and stamps from Fuerzas Armadas.
1435 Netherlands Antilles. Radio Kolboum, N.A.5, Oranjestad, Aruba verified with card showing their control room. Believe was written in Dutch: "Eenki la pa verifico recepcion di ..." very specific, power listed as 1000 watts but sign illegible. (Brubaker, Fla.) (as is next item, below)


1522 Switzerland. SBC sent v/s for 1/29/69 tape and report, franked airmail on 3/17/69 and arrived 3/17/70 in mutilated condition, torn badly. Signer is J. Chisholm, no technical info. See my tape was not returned since it was severely damaged in the post (their words). Ha-they ought to see the verie. (Starr, Ohio)

1570 Mexico. XRNQ, card in 8 days surface mail; SASE sent. (Kemp) Oops, here are some more I get out of sequence-had to happen sooner or later. I must've had them filed under "K" for "Klutz".

1115 Italy. WA7 sent the usual antenna drawing card in about 3 and a half months by see mail for 1150 kHz (Bari). Have freq and verie statement only, 1150 kHz tape sent. (Lodell, Mass.) WA7 sent standard v/s q/v from Rome for 1115, no date or time, freq typed in. In transit about 2 months. (Paul Kilroy, D.C.)

1151 England. BBC Stargazer. V/1 from P. Williams somewhat inspecific or reception detials. Published small booklet on Guide to BBC Radio and TV stations. Address via BBC, PO Box 27, Broadcast House, Piccadilly, Manchester 1. (Kilroy, D.C.)

1205 Sierra Leone. Verie card in from "Radio Sierra Leone", 20 kw for my reports on Jan. 27 and 28, 1970. Can't read the name of the v/s but he is the director stamp on the card. One of the very best verie's I have collected since 1939...by 92 from Africa from California. (Bank Wilkinson, Hollywood, Calif.)

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Thailand DX report de Glenn Hauer ... Longwave loggings were made on a Heath GR-54. Local high noise level seems even worse on LW than on MW here, however, I was using my 50 Foot LW on the night I was testing the rer. and the vis- ually inadequate. I urge that any club covering MW also extend coverage to any LW broadcast DX reported to it, because of the identical nature of transmission on the bands and correlation of propagation between them. Other- wise, this worthwhile aspect of DXing will remain an all out interest devoted to it in the absence of LW DX clubs or columns. I might add that aeronautical beacons in SE Asia dominate the band here, but being utility; are clearly beyond the scope of broadcast DX coverage. (Editor's note - as I mentioned in the last column, when we ran the TALF results, we would run items concerning LW DX in this column if they were submitted to us and if they were clearly of some interest. This would not mean a weekly column in its own right - there certainly doesn't exist that much interest - but we have already gone on record as establishing coverage of LW DX in NCR on an occasional basis. In other- wise, in a few event occasionally, we will make room for them. We might get some feedback about "waste of club motions" but the fact is, we've already bought the space. Now, let's fill it with something useful, ok?)

Items below logged from Nakhtn Ratchaburi, Thailand.


245 Asiatic REPFR. Music at 1410, 1426 brief in Russian, 1500 IS. Vlad- ivostok is scheduled silent during this hour: Nikolovsk/Kamur also is listed, but it seems likely this is the same station as city not far away.

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263 Asiatic REPFR. Russian talk at 1405 3/19 probably Chita altho Moscow also also 24hrs here.

294 Asiatic REPFR. Dusk listed, Russian talk at 1420 3/29, QRM from beacon "notNOTE: freq.

540 So. Vietnam. AVVN Saigon (and other outlets) have detailed local ID block nightly at 1557 GMT, followed by Viet and US anthems, preceded by deviational. Single tone at 1600 GMT, time in 24hr system, into news.

690 China. A number of new Russian service outlets have just begun to be heard as of 2/14. Some of them here, strong at 2107 but QRM from Inoc near 697. China. Radio Peking Russian, new here, strong, detailed list of satellite pass times at 1245 4/26.


800 China. Russian ID as "Govorit Pekin" and talk on Leninism, a low wet. New freq.

860 Viet. 1312 4/16, as 735. Could be North Korea, also other channels such as 655 and 785 were not heard.

864 Gilbert & Ellice (f) Finally detected a carrier here at 1345, sked w/o on 3/18, hitting stronger 845 signals from the west.

880 Sikkim. The listing of this stn in the WWRF frequency pages has enticed me a great deal, since few if any DXers have ever logged the station. However, letter from the Secretary to the Chogyal, in Gangtok says in part, "Sikkim does not have a broadcasting station as yet, country-counters." (That note may possibly be just a re- servation, with the IPRB, for a future assignment there on that freq-od?)

918 Cambodia. Phonm-Penh HS is here; had wondered why I no longer heard them in Cambodia. At times they've become so weak they've been taken for another Thai station. Observed at 1040 4/16 2 strong with anti-Viet Cong statement, in Khmer, then in French, then ID "Thim Phonm Penh," "merital mx, drum in Khmer. Was // 4907 SW, and not heard on 740 or on 6090. At 1129 pm ended, ID in Khmer, and repetition of pro- Chineso commentary. Excellent national music content cdr out 1134.

1140 Philippines. We now sked AN but usually just an 0C if anything. On 4/16, however, had special Eng talk at 1229 // 1178, evidently on late for Apollo coverage. Okinawa-1178 noted with SAB evident this date/time.

1170 Kazakh SSR. M&W alternating in Russian news 1403 4/10, not heard before, Peking in any way.

1290 Yet another new Russian avse freq 4/26 at 1440 4/25 with satellite pass times. (This item China-my omission-Ed.) Logged at 1250 4/26 4 Chinese satellite to same place // "Peking" instead of "Beijing." Was there a mistake in the listing?

1340 China. 6 Peking very strong as usual 1157-relaying signal of first Chinese satellite (same IS as R. Peking, East is Red) as was the case on all FS freqs, e.g. 9660.

1365 No. Vietnam. 4/1 ID 0830 by man & woman as Viet Bac // 6/12 SW, hrd other times, song, M&W talking calmly. 1157 ID and off. Viet Bac is a regular outlet, encompassing several counties. (Viet Bec accom- modally means north Viet, as Viet Nam means south Viet. There is a name for the central part, Viet Truong but politics doesn't recognize that. They are still listed on 1260 in Sep/69 FBIS, slogan therein refers to "radio station for liberated some of north Viet" if my dictionary right.) Vietnam. Nox has reported this before as a South Vietnamese or offshore. Strong here, e.g. 1290 at 1044, M&W, DX, mx, slovak deliberate dictation in Viet, 1057 anthem on harmonica, then gongs and drums like a train get- ting up steam, and off. ID, as nearly as I can copy from tape, was "dai la tieng not somn phat ten toa corpo. (last part means me, sorry--Ed)
I would like to point out that I have been wrong in identifying the Soviet and Chinese anthems. I had always thought that the anthem heard from Soviet stations was the Internationale, thus a different piece heard from China had to be something else. I have finally realized that the Soviet anthem is just that - the Soviet Hymn - and that China does routinely use the Internationale, as Richard Wood has maintainied all along. So, many of my reports have been incorrect in that respect. (For the clarification of non-speakers, Glenn, this would be a difficult thing for a DXer to know, as samples of these compositions are not readily obtainable and one has to depend on monitoring the Soviet or Chinese stations, and knowing which one he was listening to, to know how the music sounds. With Russian stations broadcasting in Chinese and vice versa, this problem of identification is just that much harder. - GJ)

--- BACK OF THE FILE ---

Jay Murley advises that an agency media director he knows had a request/proposal from a "Radio Omega-YTM" with a mailing address of Kolenberg 25, 1930 Zelen, Belgium. He is seeking more info. This sounds like it might be an outfit that buys time in blocks from people like Auderra or Luxembourg, and resells it to others. Those who went on the KXEN station tour at the 1969 convention saw this practice in action, I'm sure. I doubt it is a station that transmits, but I wonder? Can anyone supply further info on this one?

Jerry Starr has a verie from CPFRA and asks about its country status. Notwithstanding the fact it is surrounded by water, I would surmise this is the same situation as the Kauai Island exclusion. Inasmuch as the island is under Canadian jurisdiction, I feel we have to count it as Canada (and as NMT for domestic records). If anyone feels otherwise, we'll print his comments here.

Spain. The German DX club ADDX comments on a recent tendency of Spanish to leave the crowded channels of 1133, 1412 etc. and move to European splits; it cites recent moves by ESO-5, La Voce del Salduaquir, Sevilla from 1133 to 1120 and EFR-57, La Voce de Navarra, Pamplona from 1133 to 1164. Watch for more such changes. (Via Richard Wood, Hawaii)

British Standard Time (GMT plus 1) is still officially described as an "experiment." The fight against it continues in the British Parliament, led by Scottish members of Parliament. (Via Richard Wood)

Speaking of time, Richard Wood and Glenn Rasmussen have come out in favor of a change to GMT in the International section, with the proviso that both major clubs make the switch. No other comments have been made...

Bill Brubaker had a nice visit from Cesar Obuje who was in Miami at the end of April. Bill also writes that he was in Nassau a few weeks ago, and visited ZNS. They received a legitimate report, with tape, on ZNS-2 (1240 kHz) from a DXer in Prague, Czechoslovakia...who suggested ZNS-2 boost their power so that it might be heard regularly over here. That would be nice to perhaps from a DXer with this station in the future, as they have had several such requests.

Alex Board, reporting from Malta with the Fleet, writes that he thinks there is a good chance he will be able to get to the Convention as his ship will be in the yards for repairs over Labor Day. Hope so!

Welcome to new reporter Steve Kemp, using a HQL40X, longwire and an IRCA spiral loop. Steve came over to BCB from SWJ after 1 month he is up to 14 countries (as of report time, which missed my previous section) so he's probably past me by now, hi. Guess that's it for now. Good summer DX.

An Introduction to Simply-constructed Audio Filters & Networks

by Russell J.平等

One of the major problems facing DXers today is that of how to remove the desired signal from the rest of the noise in the receiver's passband. Although much time has been spent in the discussion of removing undesired signals, little has been said regarding the removal of noise, or, more recently, the removal of undesired heterodynes.

While many of us have found the heterodynes caused by two adjacent stations "beating against" each other to be an invaluable aid in determining the presence of signals on split frequencies, and, in many cases, in determining and recognizing two or more stations within 5 kHz each other, this heterodyne, or "beat" rapidly becomes a major nuisance once it has outlived its usefulness as an indicator. Therefore, if there is no reason at all why we shouldn't endeavor to find a way to remove it at will. To this end, among others, man has created a device known as an audio filter.

Until quite recently, audio filters were rarely used by DXers, which fact is perhaps related to their scarcity in the market. Tho we likewise find that most of the audio filters which are best suited for the needs of the BCB DXer are also quite expensive. As it happens, though, one must ultimately get to the point where he has improved his receiver in enough other areas to have necessitated some improvement in the audio section, and this is best done by the use of audio filters.

Simple audio filters come in two basic varieties, high-pass, and low-pass. Although there are several other types, some of which we will discuss later and others which we will ignore completely for simplicity's sake, we will take the two most common types of the DXer filter and place them in the audio filter family. Each of these two types of filters allows a specific portion of the signal to pass through it unattenuated, hence the designations of "low-pass" and "high-pass.

The low-pass filter allows low frequencies to pass through, thereby attenuating or reducing the high frequencies. The high-pass filter does just the opposite, and is defined by a specific cutoff frequency, where its effect stops, although in lesser varieties, this cutoff may be far from sharp.

Of most interest to the BCB DXer should be the low-pass filter on the order of 2.5 kHz. cutoff. This type of filter passes signals whose audio frequency is below 2.5 kHz. Thus, if a signal has components both above and below this cutoff, primarily those below it will be passed on to the speaker or phones. The reason that this type of filter is of greatest significance is in its price, availability, and ease of inclusion into the audio output circuit. ((NOTE: ALL audio filters used for the article are installed between the output of the receiver, and the speaker or phones.))

The installation of a filter of such as described here is the one which was published in DX NEWS just about a year ago, and the parts needed are as follows:

1) 3.7 kHz low-pass filter (Available from Fair Radio Sales, Lima, Ohio)
2) 3.2 to 500 ohm standard output transformers (Available anywhere)

The circuit for such a filter is shown below:

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<table>
<thead>
<tr>
<th>T1</th>
<th>3.7 kHz filter</th>
<th>1.2 ohm to speaker, phones</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.7</td>
<td>500 ohm</td>
<td>500 ohm</td>
</tr>
<tr>
<td>3.2</td>
<td>speaker output</td>
<td></td>
</tr>
</tbody>
</table>
```

73 Bob
It is also possible to hook up two or more filters of this type in series, as this will yield an effect similar to that achieved by running the signal twice through the same filter, i.e., the cutoff will be much sharper in accordance with the number of filters used or the number of times the signal is fed through the same filter. Likewise, filters of different values may be wired in this manner:

3.2 ohm
rx output

3.2

\[\begin{array}{c}
3.2
\end{array}\]

3.2 to

spkr.

One of the largest advantages of this type of filter (low-pass or a compound low-pass) is its ability to eliminate the audio tones generated as heterodynes. Of course a filter network comprised of low-pass filters won’t help to eliminate the really troublesome sets of 2 ida. or less, as they are contained in the audio range of most signals, but such a network would indeed help to reduce many others.

Similarly, the high-pass filter can be an extremely useful apparatus for the DX'er, as it can be used to eliminate low-cycle hets or 60- or 120-cycle hum caused by power line noise. The basic problem here is that of cost. High-pass filters, say on the order of a 150-200 Hertz cutoff frequency, generally run from 330-550 to some really large sums for non-standard values. Thus, most DX'ers are priced out of the market before they start. Should you discover a source of supply for low-pass filters you can afford, they may be wired in the same general manner as are low-pass filters.

Frequently, the varied uses for which a DX'er would employ an audio filter or filters require a filter network to ease operations. Such a network might include two or three differing values each of low- and high-pass filters. The adaptability of such a system is almost unlimited, as nearly every possible type of noise or undesired signal component can be reduced or eliminated without undue difficulty. A block diagram of a filter network such as is described above is shown here to illustrate from a standpoint of function, just how the network is pieced together.

This type of circuit will allow the use of any combination of the four filters. For use with networks consisting of greater numbers of individual filters, simply continue the same series of wiring. With such a system, one can selectively cut out various chunks of the signal’s audio range to attenuate noise or unwanted signal. Still another type of audio filter which can be extremely useful in this type of array is called a band-pass filter, which cuts out frequencies at both the high and the low end, and allows only a central portion of the audio range of the signal to come through. These, too, are expensive and likewise scarce.

In this point in the display, it becomes increasingly important that the distinction among the functions of the various filters mentioned is made absolutely clear; therefore the diagram below delineating the functions of a) a high-pass filter, b) a low-pass filter, and c) a band-pass filter, is included.

In the case of the human speaking voice, we find that the average male speaking voice has a basic audio range ((The term basic audio range, hereinafter referred to as BAR denotes the range of frequencies covered by the primary vibrations, excluding harmonics, of the sound producer in question.)) of approximately 130-150 cycles (Hertz), while the average female speaking voice has a BAR of approximately 235-295 cycles (Hertz). While it is true that much of what we hear as a voice is based upon the overtones known as harmonics which tend to give resonance and timbre to the speaking voice, we will consider for the sake of hypothesis, only the BAR of the voice, and, likewise, we shall consider only the BAR in the other examples associated with the above charts.

In figure (a) above, we see illustrated the effects of a high-pass filter with a cutoff value of 130 cycles (Hertz). This filter has the effect of cutting out (attenuating) all audio frequencies below this cutoff point, and passing (hence the name, high-pass filter) all frequencies above this cutoff point. This particular type of filter, although strictly hypothetical, would be useful to the DX'er in that it would allow for the attenuation of undesired 60- and 120-cycle noise (Hertz) hum, but still leave the BAR of the human speaking voice unhindered, thereby allowing the passage of intelligible audio. The same principle applies to the low-pass filter (b) except that it is in reverse: all frequencies above the cutoff point, in this case, 300 cycles (Hertz), while passing those below it. Thus, the effect would be that of attenuating hets greater than 300 cycles (Hertz) while leaving the BAR of the human speaking voice once again untouched.
A third type of filter of interest to the DXer is the band-pass filter, which has only a specific group of frequencies within the total audio spectrum, while rejecting other frequencies both above and below the desired range. As in (c), which depicts a fixed-frequency band-pass filter which passes frequencies between 130 and 300 cycles (Hertz), this filter combines the actions of both the high-pass and the low-pass filters mentioned previously, leaving us with only those frequencies which comprise the di of the human speaking voice.

In comparison, the RAR for combined male and female singing voices is approximately 90 to 1000 cycles (Hertz), while that for the average piece of music is approximately 30 to 3000 cycles (Hertz). Bear in mind also, that the foregoing figures are not accurate representations of the performance of test filters, and are really approximations for the purpose of illustration only. Likewise, the amount of signal an individual may consider to be intelligible will vary considerably, and should therefore by no means be considered a constant. Some before may prefer constant elimination of either the high or low frequencies, or perhaps even a combination thereof, while others may prefer none at all.

We have now covered the simple fixed filters commonly available and how they may be constructed into effective filter networks, but there is still another way to achieve audio filtering, that is, by using commercially-contracted audio filtering units obtained on the surplus market. Although there are still some companies manufacturing audio filtering units for commercial use, these items are extremely expensive, and, unless you have several hundred dollars to spend, you may have to make some of these units. The surplus market has, however, an excellent source of such audio-filtering units manufactured during the last two or three decades. Generally, these units may be obtained for anywhere from $1.00 to $10.00, depending on how much rebuilding one is prepared to do, and, their real value lies in the fact that they are almost exclusively B.F.T. filters.

One of the more readily-attainable types is the Variable Band-Pass Filter. This filter functions in essentially the same way as the fixed-frequency band-pass filter discussed above, save that its frequency range is variable, usually between 20 to 2000 or 20 to 30,000 cycles (Hertz). This feature allows the user to select any given set of cutoff frequencies to define the desired passband, which enables him to reject either all frequencies above a certain point, or all frequencies below a certain point, or both combination of frequencies above and below a certain point. For example, if we have the audio frequency band-pass unit above, we may select 130 cycles (Hertz) as the low cutoff and 300 cycles (Hertz) at the high cutoff point. Likewise if we have only a 60 cycle (Hertz) band and a 500 cycle (Hertz) band to eliminate, we may set the filter for say, 75 to 150 cycles (Hertz) to reject this thin.

Still another type of filter currently available on the surplus market is known as a Variable Band- Reject Filter. This particular type of filter's action serves to reject a specific group of frequencies within the audio spectrum. In this way, it can be thought of as having a function precisely the inverse of the Band-Pass Filter in terms of the end result only. The effect achieved is the attenuation of a chunk of frequencies in the middle of the audio spectrum, while passing unaltered any frequencies both above and below that group. This filter allows for the rejection of the objectionable audio heterodynes (not) created by adjacent stations, provided it is within the audio range. This effectively makes the filter useful for hams ranging from about 100 cycles (Hertz) to about 3000 cycles (Hertz). In more sophisticated species of this type, the actual width of the rejection band is also variable. These units may also be used to eliminate test tones to reveal audio underneath. Optimally, such use will create a situation which is comparable to that occurring when a weak signal is perceived beneath a strong carrier (10). The filter is simply tuned to the offending frequency, and the basic frequency of the heterodyne is attenuated. Unfortunately, however, it will usually be impossible to remove the harmonics of the basic frequency involved. The reader should likewise remember that when we speak of the basic frequency, we mean the basic frequency of the tone involved, and not a frequency in relation to the tuning of the receiver.

By the use of both a variable band-pass and a variable band-reject filter in cooperation with each other, the desired signal may be cleaned of many objectionable components and intrusions in order to allow a significantly easier reading of the signal. If the DXer has access to a tape recorder, an even more significant improvement may be achieved by playing the filtered tape of a given reception through the filter network or other means in order to effect a more definitive cut-off. The action of a filter network such as described above appears elsewhere on this page, wherein we shall assume that we wish to eliminate the following undesirable audio components: a) 50-cycle (Hertz) hum; b) a 3-kc. (3000 cycles) tone; and c) a 1-kc. (1000 cycles) hum. The attenuation of these components will still leave a large enough portion of the audio to allow easy readability. Given an additional variable band-reject filter, we could, of course also eliminate still more such as a 500 cycle (Hertz) hum from another adjacent station, although as a rule, it is very rare indeed to require that much rejection. The system employing one band-pass and one band-reject filter should be more than adequate in 99% of the cases a DXer may encounter.

Thus, we have explored the majority of the easily-obtained and/or easily-constructed audio filtering units. While it is true that there are many other devices which will likewise perform the audio filtering function, they are generally complicated construction projects, or would require parts which are extremely difficult and/or expensive to obtain. For this reason, the author has chosen to omit them from this discussion in that it pertains specifically to introducing the reader to the concept of audio filtration as a useful and readily available part of the DXing hobby. It is hoped that further discussions on this subject will follow, and that they will delve into the more complicated theoretical and practical aspects thereof.
Greetings, people: With publishing difficulties and bad ox, this looks like it'll be a small column, but it's gonna be complicated by the time change, since about 1/3 of the material submitted was from before the change, each of the 37 sections A & C will be divided into two sub-parts, the first for EST, the second for WST. After this, however, all items will be WST thru October. Please keep this in mind when submitting to DWD.

Also, PLEASE do not address things to WST, or WST DWD, or whatever, all mail should be addressed to me personally, else it clutters the already-too-busy post office workers. Please please do not send in list form, as opposed to a letter form. Section D is small, too, all of the items received by 5/8 were put into the Updater, also, the order of sections herein is altered for my own convenience this time. So, without further ado.....

F/V's

All of the following heard in HARDI: KXLA-1500; KXAX-1160; WRPO-1140; KCCC-1160; KNIX-1260; WMC-1160; KXAS-1230; KXAS-1260; KXAS-1290; KXAS-1260; KXAS-1260; KXAS-1260; KXLA-1150; KGSS-1150.

changes

+ 1320 KXAS-Sx ex-KXLA (RJ)
+ 1320 KXAS-Sx My info conflicts: is it WST or WST? (RJ)
+ 1330 KXAS-Sx Is off WST. (Bill Stone, Claremont, Ont.)
+ 1330 KXAS-Sx Taken from FAA, is OL655 (Stone)
+ 1330 KXAS-Sx CR is not yet on, as reported earlier. (RJ)
+ 1350 KXAS-Sx Tests weekly on one of three N/Ts; Wed., Thu., Fri., but it varies, runs 2300-0000 WST. (Stone)
+ 1350 KXAS-Sx New call - ? (?”)

call applications

500 Thousand Oaks, Ca. req. X616
900 Yardbender, Ca. req. X633
1100 Appearance, Ca. req. X633
1170 Lamewood, Ca. req. X640

These I have no report of grants or other info, but they've requested calls.

Lake Havasu City, Az. - req. X79

midnight to sunrise

EST Loggings

1200 KXAS-Sx Good O55 W/19/29 w/ lite mx. (Steve Kemp, Irving, Texas)
1230 KXAS-Kx Hrd All W/13, reported. (Stone)
1240 KXAS-Sx Good O51/19/29 w/ adx, ID (Kamp) (Stone)
1250 KXAS-Sx Testing 0220-0245; for sablo & freq. measurements on 10/15
1300 KXAS-Sx Testing W/19 ending 055/19/29 (Stone)

EST Loggings

500 KXAS-Sx W/D X616 Q50-Q43 X79 16 W/19 (Stone)
500 KXAS-Sx W/D X616 Q50-Q43 X79 16 W/19 (Stone)
500 KXAS-Sx on top Q50-Q43 16/29 (Stone)
500 KXAS-Sx In clear Q52/29 after W/19 gone (Stone)

and the EST stuff, what's left of it.....

770 KGSS-Sx Stronger than ever bl, 5/5 2126-2129 w/ No2 (Kamp) (So, this one's listed twice -RJE)
1400 KGSS-Sx Hrd 15/19 2126-2129 w/ No2 (Kamp) (So, this one's listed twice -RJE)
1400 KGSS-Sx Hrd 15/19 2126-2129 w/ No2 (Kamp) (So, this one's listed twice -RJE)
1500 KGSS-Sx Hrd 15/19 2126-2129 w/ No2 (Kamp) (So, this one's listed twice -RJE)
1500 KGSS-Sx Hrd 15/19 2126-2129 w/ No2 (Kamp) (So, this one's listed twice -RJE)

No, this is really outrageous, this time-change business... and, yes, just, I'll have some other stuff left from EST for next issue...
I have joined a list of the originating stations for each major league baseball team, and how many days they play, from Broadcasting, and on radio, at home. The control hoppe have two sets, tea 7, the other TV, with 4, an originating station. The entire control net will be listed after the originating stations list. Number in parentheses is number of stations total.

**NEW EAST**

Atlanta Braves - KBY-750 (2)
Cincinnati Reds - WKY-710 (10)
Houston Astros - KHKE-750 (2)
Los Angeles Dodgers - KFI-940 (12)
San Francisco Giants - KSF-560 (10)
St. Louis Cardinals - KMOX-1120 (100)

**NEW WEST**

California Angels - KMA-790 (20)
Chicago Cubs - WBB-790 (10)
Kansas City Royals - KRE-680 (50)
Milwaukee Brewers - WITI-1250 (10)
Minnesota Twins - KSTP-820 (100)
Oakland Athletics - KKO-660 (10)

Montreal Expos! BA NEWS:

**UPDATER**

| XX700 | 11:10 AM | full time, HMT: 11 |
| XX770 | 11:20 AM | delete |
| XX780 | 11:30 AM | delete |
| XX500 | 11:40 AM | delete |
| XX600 | 11:50 AM | delete |
| XX800 | 12:00 PM | delete |
| XX900 | 12:10 PM | delete |
| XX400 | 12:20 PM | delete |
| XX500 | 12:30 PM | delete |
| XX600 | 12:40 PM | delete |
| XX700 | 12:50 PM | delete |
| XX800 | 1:00 PM | delete |
| XX900 | 1:10 PM | delete |

Anyone having any notes as to what stations were inaudible due to blanket-age, and what ones were enhanced during the aurora which occurred 3/12 L 2, please send a copy of these items in the form of a band survey to me, as between Page Taylor & myself, we have a complete survey for the 172 area, and would like to add in info from other areas to more accurately pinpoint the auroral zone on these dates.

**H ROT FXES** will be issued shortly. This latest delay is due to a re-order of the DL cards. Rest assured that they'll be sent out as soon as the cards arrive. A list of reporters should accompany this page.

**CONVEN** plans are still going ahead. Complete data as to transportation, price data, tentative schedule, etc. will appear next issue. I had hoped to run it this time, but last-minute difficulties with securing a site for the IP-connection, in addition to quicken turn which caused us to put off tests two days off, made this impossible. Hopefully, next time. I can say that the prices are to be very similar to those in past events, and as a result, we are expecting the largest turnout ever.

The FOG is considering a proposal to allow Class II clears to increase their power to 100 kw. and perhaps more. The proposal is for FCC booklet 1865. I urge all to protest this unnecessary outrage. 
More random notes...

I've not got either Dave Taylor's or my DX from about 1971, so there'll be some SSB stuff mixed in. I'll simply note them as SST in passing. What we're both doing here is ZL, so technically, there's no difference, but it's still a nuisance, also, I'm working & going away this week, and my time is a bit short. Let's hope there's more stuff for next issue, and more from people. Most of my DX has been LA's during the period of 17-21, when good LA's were available. Since, I've been hampered by work, illness, etc., and generally gone off, so there's little or no recovery take place from said auras as yet, so we must have reached the saturation point in terms of recovery.

PLEASE NOTE: I'll not run any minor sked changes in either regular sections or in Updater until we're back on SST, as the conclusion is bad enough without.

YOURS IN DX...

FAYE TAYLOR

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MORRIS SCHLOSSMANN: Box 37 - Erema, Ontario

1 finished up at Laurentian U. on 4/25 so I have been able to do a lot of DXing with the following sensor results (all times EDT).

b-27/ W3ZD-1050 N.Y. 12:20-12:30 a/SST 9:30 v/c all eyes ready on SST

Does this fit UGMI? W3ZD-1050 Pa. 8:00 a/SST also. 4/29. LPH-1250 11:30 a/SST. At that time it would have to be either CHEZ Britt Ont. or CGBL Mattawa, Ont. both around 60 miles.

b-30/ WADD-1050 Brockport, N.Y. 12:11-12:30 a/SST 9:30 v/c all eyes ready on SST

4/29. 5/2-1250-1900 N.Y. 5:30-7:10 a/SST 9:30 v/c all eyes ready on SST

I hated the long DX DX time. The new Lempasinga. Que. station is now on so they are now my closest unheard other than 1560. I'm not sure but I would guess the distance to be between 60 & 90 miles. They could be as close as WCA-940, 35 miles away to have a fairly strong signal here. Once again I am in need of American stamps for return postage and if any U.S. members need Canadian stamps I would stamp it with swap. Then.

ALAN KETTLEHOF: Box 10 - Fairfax, Virginia - 22030

Not really much doing in the way of DX but I thought I would get my 2¢ worth in. For the past six weeks I have been working a shift that puts me at work at 2am on SST so not so good for DX. I have been doing some listening but just can't seem to come up with any new ones. The usual crop of unidig listeners that bother everyone. Only new big DX has been 4/5 KVP-770 to a/sst 7:30 & on 4/12, WAKO-1500 w/ SST 10:09 a/SST. I have also noted the new WAK-1170 at sunset but not enough to log yet w/ WWVA & another station, probably WEOE, providing much QRM. Verdes continue good with new ones in from HRHD-V95 Orpm-1940 9:30-10:00, Sigm-1970 Italy-KOM-1153 West WBEF NWT WSM-1140 West & KOCM. Looking back on the winter season with the W/90 new verdes & goodies such as BCS-1250 Malta & Terawa-540. A couple of disappointments such as no answer from Libya-1124 and R. Nordage but I guess there is still interest. I am going to do some listening this Summer & am looking forward very much to the Convention. 73 & if not before, I'll see you in Hacksaw Heights.

FRANK WHEELER: - 6569 Mottsgen: Road - Erie, Pennsylvania - 16509

About time I sent in some kind of report. Off the record, I sent reports to the various other editors about receiving stations on certain dates, time, etc. and what is left. Excluding the highlight of the '65-70 BES season for Musings, for Musings. The highlight of the '65-70 season was that WWMB a/F 3/28 & KUZG-1700 on 3/23 trying for KDL (I never did receive the latter). I received 39 new from 10/69 to 4/30/70, & 31 verdes, for a total of 2,652 received w/1,613 verdes. I hope the mail service gets better during '70 & '71. I hope everybody has an enjoyable Summer. A TV DXers have a lot of success, also see we BCS DXers also have a few new ones on BCS. I'm also an avid TV DXer. 73s.

JOHN P. LUNDINO: -23 Grove Terrace - Irvington, New Jersey - 07111

Since this is my first Musings here is a short introduction.

I'm 15 & a sophomore at Irvington High School. First I would like to thank Joe Pela & Tom & others for the notes. 1 listened to a lot of SST between 3:49am on 4/10, any help 8:00pm, WMD-1200 in w/a fairly good signal. 4/27 A M & CGBL received in w/a fairly good signal & I tuned to 1250 & noted WMD off at this time, but no contacts resulted. 4/28, 15-1250 I noted that CGBL had a TA on SST 11:30 a/SST, 4/29/70 WMD received on SST. 4/30 Unid-1250 at 7:17pm w/Tommy DB. DB helped on this one. 5/2 WAKO-1500 made a dent at this time for their signal was at a low point of 11-13a. 5/3 a little after 3pm local WAKO went off the air in the middle of a song. I didn't come back on for the remainder of the day. Because of this, no new stations were heard. 5/1 was WBD-80 & 80- was WAKO Me. on SST. Recent verdes are WAKO-1500-1500 N.Y., V/90, all v/90. I would also like to thank Harry Hills for his WSDI verdes. 73 & good DX. (Welcome to the HRC, John & we hope to see lots more Musings from you in upcoming issues: -PJO)
RICHARD M. WOOD - U. of Hawaii - Dept. of Electrical Engineering

A new DX occasion occurred yesterday.

34

34

A new DX occasion occurred yesterday.

A new DX occasion occurred yesterday.

DICK TAYLOR - 1100 Jangwalkong Ave - Charleston, West Virginia - 22212

just knowing when & if this will see print, I hope that some of it is still timely. No DX NSS since 3/14 received here. Down to DX such as it is:

3/15: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week. 3/16: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/17: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/18: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/19: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/20: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/21: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/22: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/23: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/24: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/25: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/26: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/27: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/28: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/29: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/30: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/31: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

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3/20: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/21: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/22: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/23: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/24: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/25: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/26: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/27: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/28: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/29: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/30: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.

3/31: W6KRM/0-250 N.C. on 1500 & 3000 kI for about 2 hrs & then gave up for the week.
JIM JANKOWSKI - 11 Meadbrook Terrace - Cora, N. Y. (2036)
Greetings, fellow NRCS! As an intro for those who don't know me, I'm 13 (going on 14) and got my interest in DXing when my father picked up a 1940 SW Jr. I listened to SW for about 13 years, joined NSMA, but then got tired of the same old stations were heard. Then began to listen to SSB DX.
I joined the NRCS in 6/9. Got me interested in the AHCS and so I joined.
I received a sample AHCS DXM and joined that club in 11/69. As I grew more experienced, I joined the NRC.
Total states heard in 69 are 403, not including Puerto Rico.
Total stations heard are not yet computed, but they're over 220/120.
Only foreign stations heard are from South America and South Africa.
I hope this is of some interest.

JERRY S. OSTERMAN - 9B Redondo Beach, Calif. (2037)
On the air for some time now, I have heard a few interesting stations which I would like to report.
1. W4DDX - W4DDX is a 1500 watt station located in the Philadelphia area. He uses 5000 watts on 20 meters and is a QRP station. He is a ham and has been on the air for about 10 years. He has a very strong signal and is a great DX station.
2. W4SK - W4SK is a 5000 watt station located in the Baltimore area. He uses 5000 watts on 15 meters and is a QRP station. He is a ham and has been on the air for about 10 years. He has a very strong signal and is a great DX station.
3. W4KZ - W4KZ is a 2000 watt station located in the Washington, D.C. area. He uses 2000 watts on 30 meters and is a QRP station. He is a ham and has been on the air for about 5 years. He has a very strong signal and is a great DX station.

JERRY K. CONRAD - Box 952 - Haines City, Florida - 1338
I've finally finished my triple-electrochemical filter array. It took 90 hours of work and was worth every minute of it. I put it in one of the better K6 stations and it looks like a five-lube superhet in comparison to before. Separating splits to less than 1 n. is no harder than tuning 10k channels on any other radio. I photographed the whole process as soon as I got it all written up GM says he'll publish the how-to do. If you can put together any electronics, the only electronics I've had is through DXing itself. Meanwhile if anyone has questions or problems with his, I'll try to help. HDM wants to see their TST & I also got W4K1 & W600 for two prize draws from Florida. During the W10 TST, 205 was on 02 for 15 minutes as promised via a phone call to their GM. Thanks, TST! Lots of new DX since I last reported most sent to Foxy but some domestic just on W400-Jacksonville, Fl. 1500; Fort Lauderdale, Fla., 1400-West Virginia, W400; and Atlanta, Ga., all on 03 as on 02/28 though I've seen reports on two of them. I did log GMH in 04/25 on 02/FM-25 show mixed w/travels of 04. They a/o at 04/30. And I logged W4B-W340 during W10's TST. They were under everything on the channel. See you in Haines City. 73.

JACK D. ROSS - 80 Virginia Terrace - Fort Worth, Pennsylvania - 1704
New members appear to introduce themselves, so I will do so here. I joined in January and have been trying to put together all the information on the NRC operation. I would suggest that the new member kit should include those on the Supprenary Ratings. I still haven't figured out how this works. I am professor of history at Wilkes College and 36 years old. I have been licensed for 5 years and with some regularity until 1964. I decided to get back into active last year but time is limited, especially with 8am classes every morning including Mondays. I am currently using a Hallicrafters 8-76 (age 16) a/o Molesley SWL-7 antenna oriented 350-210. This gives good results despite its design. Also a Drake SBE-4 (age, four years) temporally hooked to a 50 straight line oriented 350-210. I also have a picture of some zones on the front of the house and a jungle of electric wires on the back. Totes since 3/7 are 210 stations, 27 states, three provinces and nine countries. Best stations: W4, 351, W3, 30; W2, 26; W1, 13. Most distant - Tierra on 139kh. I never bothered with today till now but have lately accumulated 15.
I also work SW. I would like to see DX News use GMT throughout. I think it should make things easier than switching all the time. (Welcome to the NRC, Harold, & we hope to hear from you soon! - ERC)

JEN LEE - 1301 Kansas St. - Indianapolis, Indiana - 46240
I've been in the Midwest for a while. I've been sent to 1500 WTRW-1300 on 1024/1027 MHz, W99VW; K80YF on 1030 MHz, W90YF; and K70Y on 1070 MHz, W70Y. I've also been sent to 2000 WTRW-1300 on 1024/1027 MHz, W99VW; K80YF on 1030 MHz, W90YF; and K70Y on 1070 MHz, W70Y. I've also been sent to 2000 WTRW-1300 on 1024/1027 MHz, W99VW; K80YF on 1030 MHz, W90YF; and K70Y on 1070 MHz, W70Y.

Thank you for your time. - ERC

Next week 3-30 - 1500 WTRW-1300 on 1024/1027 MHz, W99VW; K80YF on 1030 MHz, W90YF; and K70Y on 1070 MHz, W70Y.

The next issue of DX News will be Tuesday, June 21.